

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A sensor device for tire which detects tire inside information in a state of the device installed in a tire air chamber and transmits the detected results to the outside, comprising:

a movable member which is swingable outwardly in a tire radial direction by centrifugal force of the tire when the tire is rotating, and forms an antenna for transmission; and
a switch which detects a traveling state in conjunction with movement of the movable member.

2. (Currently amended) A sensor device for tire which detects tire inside information in a state of the device installed in a tire air chamber and transmits the detected results to the outside, comprising:

a sensor which detects the tire inside information;
a transmitter which transmits the tire inside information;
a control circuit which controls operations of the sensor and the transmitter;
a battery to be a power source;
a movable member which is swingable outwardly in a tire radial direction by centrifugal force of the tire when the tire is rotating, and forms an antenna for transmission; and
a switch which detects a traveling state in conjunction with movement of the movable member,

wherein the control circuit switches at least one of the operations of the sensor and the transmitter between a traveling mode and a non-traveling mode, based on detected results of the switch.

3. (Cancelled)

4. (Currently amended) The sensor device for tire according to any one of claims 1 to 3 and 2, wherein the movable member is supported so as to be swingable around a rotating shaft parallel to a tire axial direction, and the switch is disposed in the vicinity of a base of the movable member.

5. (Currently amended) The sensor device for tire according to any one of claims 1 to 3 and 2, wherein the movable member is supported so as to be swingable around a rotating shaft parallel to a tire axial direction, and the switch is disposed in an intermediate position between the base of the movable member and a tip thereof.

6. (Currently amended) The sensor device for tire according to any one of claims 1 to 5 and 2, wherein the movable member is energized by an elastic body in a direction opposite to a direction of action of the centrifugal force.

7. (Currently amended) The sensor device for tire according to ~~any one of claims 1 to 6~~ claim 6, wherein elastic force to the movable member by the elastic body is set to be changeable.

8. (Currently amended) The sensor device for tire according to any one of claims 1 to 7 and 2, wherein a replaceable weight is attached to the tip of the movable member.

9. (Currently amended) The sensor device for tire according to any one of claims 1 to 8 and 2, wherein a magnet is attached to the movable member, and the switch is set to be a sealed reed switch which is operated by the magnet.